

**IN THE CLAIMS:**

Please add the following new claim:

9. (New) A system for providing glycemic control to a subject, the system comprising:  
an insulin delivery unit,  
a glucose sensor,  
a control unit including a processor unit  
that receives glucose value readings  
from the glucose sensor, executes an algorithm that predicts a glucose value at a pre-determined time in the future, compares that predicted glucose value to a pre-determined glucose value range, and determines a corrective amount of insulin to be administered when the predictive glucose value lies outside of the pre-determined glucose value range and communicates the corrective amount to the delivery unit.